

California Ambient Dioxin Air Monitoring Program - Site Summary -

Rubidoux

This page updated on November 4, 2003

Site Location:

Monitoring for the California Ambient Dioxin Air Monitoring Program (CADAMP) will be conducted at 5888 Mission Blvd. in Rubidoux. This site is part of the South Coast Area Air Quality Management District's (SCAQMD) monitoring network for criteria and toxic pollutants.

Site Approval:

With the SCAQMD's approval, the CADAMP dioxin sampler was placed at the SCAQMD's Rubidoux monitoring site.

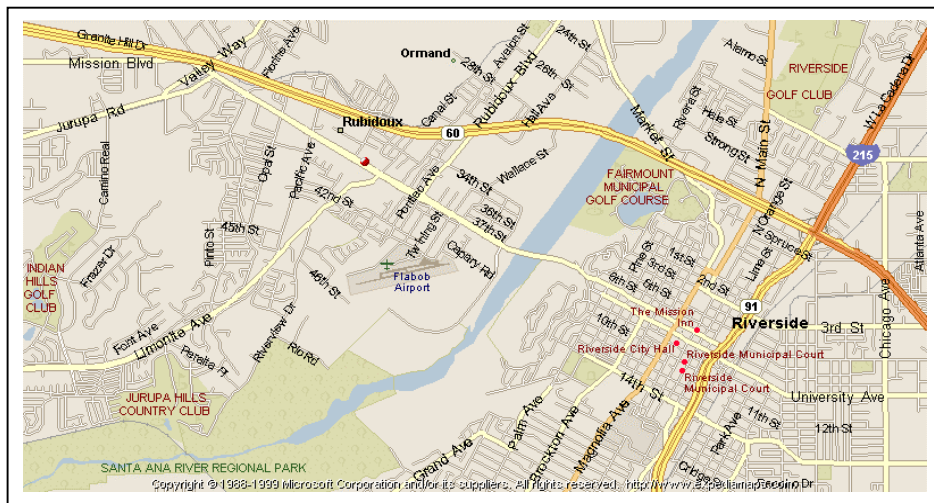


Monitoring Start Date:

Collection of samples for ambient air quality analysis for CADAMP at Rubidoux began in December 2001.

Reason for Choosing Rubidoux:

Rubidoux is an unincorporated suburb of Riverside and is located near the eastern end of the South Coast Air Basin with a population of approximately 24,000. Rubidoux was chosen as one of the ten sites for dioxin monitoring because of its proximity to mobile source emissions. Freeways 10, 15, 215, 60 and 91 surround Rubidoux. It has one of the consistently highest levels of particulate in the South Coast Air Basin.



Emission Sources:

Emission sources in the vicinity include multiple freeways, heavy surface vehicular traffic, two international and several municipal airports nearby.

Monitoring Parameters:

Dioxin-like compounds that will be monitored for CADAMP include dioxins, furans, congener specific PCBs, and PBDEs. A total of 75 compounds will be evaluated each month. Meteorological parameters will include wind speed and wind direction.

Monitoring Schedule:

The dioxin sampler will be run for 28 consecutive days each month for the duration of the project. Sampling media consists of quartz fiber filters, polyurethane foam (PUF), and XAD resin. Filters will be collected and replaced every 6th day. PUF/XAD cartridges will be collected on the 28th day. Filters, PUF, and XAD will be composited for a single monthly sample analysis. Meteorological data will be collected continuously.

Anticipated End Date:

The ARB anticipates that CADAMP monitoring will end at Rubidoux in 2004.

Agencies/Resources/Roles:

The ARB is the lead agency for carrying out the California Ambient Dioxin Air Monitoring Program and has overall responsibility for the study. The SCAQMD provided assistance in selecting the Rubidoux station and will perform all CADAMP sample collection tasks. A laboratory under contract to the ARB will perform analysis of CADAMP samples collected at Rubidoux. Staff in the ARB's Monitoring and Laboratory Division, Quality Management Branch (Operations Planning and Assessment Section) will have the lead role in coordinating sampling efforts, tracking the project, validating the data, and conducting quality control and quality assurance activities. The ARB's Stationary Source Division (SSD) will evaluate ambient air concentrations to prioritize risk management strategies.

Connection to Other Air Monitoring Programs:

The SCAQMD is collecting samples routinely for air toxic measurements as part of their air toxic network at the Rubidoux site. Monitoring is currently being performed for CO, SO₂, NO₂, ozone, particulates (PM₁₀, PM_{2.5}, TEOM, TSP), organics, metals, aldehydes and hexavalent chromium.